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Electronic Patent Application Submission  
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EFS ID: 50033  
Application ID: 10630352  
Title of Invention: STARWHEEL FEED APPARATUS  
AND METHOD  
First Named Inventor: James Michler  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-07-30  
Effective Receipt Date: 2003-10-31  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 9288  
Attorney Docket Number: 019384-9169-00



Total Fees Authorized:


Digital Certificate Holder: cn=Glen A. Weitzer,ou=Registered Attorneys,ou=Patent and Trademark  
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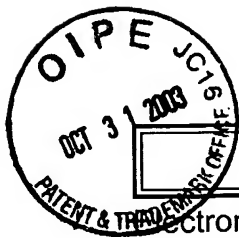


## TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

| Title of<br>Invention  | STARWHEEL FEED APPARATUS AND METHOD |                |                           |             |                |  |                   |            |  |            |
|--|-------------------------------------|----------------|---------------------------|-------------|----------------|--|-------------------|------------|--|------------|
| Application Number: 10/630352    |                                     |                |                           |             |                |  |                   |            |  |            |
| Date: 2003-07-30   |                                     |                |                           |             |                |  |                   |            |  |            |
| First Named Applicant: James Michler   |                                     |                |                           |             |                |  |                   |            |  |            |
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| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Glen A. Weitzer<br/>Registered Number: 48,377</td><td>/glen a. weitzer/</td><td>Attorney</td></tr></tbody></table>   |                                     |                | Submitted by:             | Elec. Sign. | Sign. Capacity | Glen A. Weitzer<br>Registered Number: 48,377 | /glen a. weitzer/ | Attorney   |  |            |
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| <div>Application Number: 10/630352</div> <div>Confirmation Number: 9288</div> <div>First Named Applicant: James Michler</div> <div>Attorney Docket Number: 019384-9169-00</div> <div>Art Unit: 3653</div> <div>Examiner: Not Yet Assigned</div> <div>Search string: ( 4846454 or 4770402 or 3552828 or 4349185<br/>or 4070014 or 2929624 or 4406650 or 4508527<br/>or 4650447 or 3163413 or 3784188 or 4396336<br/>or 4475730 or 4494741 or 4673382 or 0980385<br/>or 1985676 or 3773322 or 4181052 or 4190241<br/>or 4228997 or 4244565 or 4406650 or 4475730<br/>or 4501418 or 4603849 or 4770402 or 4842573<br/>or 4921235 or 4925173 or 4938465 or 5236188<br/>or 5249791 or 5359929 or 5775682 or 5947470<br/>or 6102189 or 6165116 or 6254522 or 6322315<br/>or 6354591 or 6394445 or 6439372 or RE32872<br/>or 20020020963 ),pn.</div> <div>US Patent Documents</div> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4846454</td><td>1989-07-11</td><td>Parkander</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4770402</td><td>1988-09-13</td><td>Couturier</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>3552828</td><td>1971-01-05</td><td>Lawrence et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4349185</td><td>1982-09-14</td><td>Small et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4070014</td><td>1978-01-24</td><td>Takahashi</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>2929624</td><td>1960-03-22</td><td>Brooker</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4406650</td><td>1983-09-27</td><td>Felix</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>4508527</td><td>1985-04-02</td><td>Uno et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>4650447</td><td>1987-03-17</td><td>Meschi</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>3163413</td><td>1964-12-29</td><td>Franke et al.</td><td></td><td></td><td></td></tr></tbody></table> |                                     |            |            |                 |      |       |          | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |  | 1 | 4846454 | 1989-07-11 | Parkander |  |  |  |  | 2 | 4770402 | 1988-09-13 | Couturier |  |  |  |  | 3 | 3552828 | 1971-01-05 | Lawrence et al. |  |  |  |  | 4 | 4349185 | 1982-09-14 | Small et al. |  |  |  |  | 5 | 4070014 | 1978-01-24 | Takahashi |  |  |  |  | 6 | 2929624 | 1960-03-22 | Brooker |  |  |  |  | 7 | 4406650 | 1983-09-27 | Felix |  |  |  |  | 8 | 4508527 | 1985-04-02 | Uno et al. |  |  |  |  | 9 | 4650447 | 1987-03-17 | Meschi |  |  |  |  | 10 | 3163413 | 1964-12-29 | Franke et al. |  |  |  |
| init   | Cite.No.                            | Patent No. | Date       | Patentee        | Kind | Class | Subclass |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 1                                   | 4846454    | 1989-07-11 | Parkander       |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 2                                   | 4770402    | 1988-09-13 | Couturier       |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 3                                   | 3552828    | 1971-01-05 | Lawrence et al. |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 4                                   | 4349185    | 1982-09-14 | Small et al.    |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 5                                   | 4070014    | 1978-01-24 | Takahashi       |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 6                                   | 2929624    | 1960-03-22 | Brooker         |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 7                                   | 4406650    | 1983-09-27 | Felix           |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 8                                   | 4508527    | 1985-04-02 | Uno et al.      |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
|  | 9                                   | 4650447    | 1987-03-17 | Meschi          |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |           |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |           |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |       |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |        |  |  |  |  |    |         |            |               |  |  |  |
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|  | 11 | 3784188 | 1974-01-08 | DeLigt             |
|  | 12 | 4396336 | 1983-08-02 | Malamood           |
|  | 13 | 4475730 | 1984-10-09 | Trogan             |
|  | 14 | 4494741 | 1985-01-22 | Fischer et al.     |
|  | 15 | 4673382 | 1987-06-16 | Buck et al.        |
|  | 16 | 0980385 | 1911-01-03 | Wollheim           |
|  | 17 | 1985676 | 1934-12-25 | Hand               |
|  | 18 | 3773322 | 1973-11-20 | Schlagbauer et al. |
|  | 19 | 4181052 | 1980-01-01 | Kopp               |
|  | 20 | 4190241 | 1980-02-26 | Krueger            |
|  | 21 | 4228997 | 1980-10-21 | Schoonmaker et al. |
|  | 22 | 4244565 | 1981-01-13 | Geier              |
|  | 23 | 4406650 | 1983-09-27 | Felix              |
|  | 24 | 4475730 | 1984-10-09 | Trogan             |
|  | 25 | 4501418 | 1985-02-26 | Ariga et al.       |
|  | 26 | 4603849 | 1986-08-05 | Nakamura et al.    |
|  | 27 | 4770402 | 1998-09-13 | Couturier          |
|  | 28 | 4842573 | 1989-06-27 | Peter et al.       |
|  | 29 | 4921235 | 1990-05-01 | Biagiotti et al.   |
|  | 30 | 4925173 | 1990-05-15 | Lindblom et al.    |
|  | 31 | 4938465 | 1990-07-03 | Marsiletti         |
|  | 32 | 5236188 | 1993-08-17 | Breton et al.      |
|  | 33 | 5249791 | 1993-10-05 | Belanger et al.    |
|  | 34 | 5359929 | 1994-11-01 | Hansen             |
|  | 35 | 5775682 | 1998-07-07 | Hosking et al.     |
|  | 36 | 5947470 | 1999-09-07 | Fernandez          |
|  | 37 | 6102189 | 2000-08-15 | Romagnoli          |
|  | 38 | 6165116 | 2000-12-26 | White              |
|  | 39 | 6254522 | 2001-07-03 | Schmidt, V.        |
|  | 40 | 6322315 | 2001-11-27 | Schmidt, V. et al. |
|  | 41 | 6354591 | 2002-03-12 | d'Agrella          |
|  | 42 | 6394445 | 2002-05-28 | d'Agrella et al.   |
|  | 43 | 6439372 | 2002-08-27 | Wittmaier          |
|  | 44 | RE32872 | 1989-02-21 | Buck               |

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|      | 1        | 20020020963 | 2002-02-21 | Steinkogler et al. |      |       |          |

## Remarks

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## Signature

| Examiner Name | Date |
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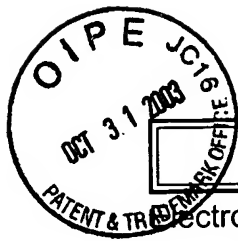
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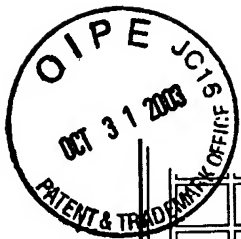


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| Title of<br>Invention  | STARWHEEL FEED APPARATUS AND METHOD |            |            |                   |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
|--|-------------------------------------|------------|------------|-------------------|------|-------|----------|------|----------|------------|------|----------|------|-------|----------|--|---|---------|------------|------------------|--|--|--|--|---|---------|------------|---------|--|--|--|--|---|---------|------------|-------------------|--|--|--|--|---|---------|------------|-------------------|--|--|--|--|---|---------|------------|------------|--|--|--|--|---|---------|------------|---------------|--|--|--|--|---|---------|------------|------------|--|--|--|--|---|---------|------------|-----------------|--|--|--|--|---|---------|------------|---------------|--|--|--|
| <div>Application Number: 10/630352</div> <div>Confirmation Number: 9288</div> <div>First Named Applicant: James Michler</div> <div>Attorney Docket Number: 019384-9169-00</div> <div>Art Unit: 3653</div> <div>Examiner: Not Yet Assigned</div> <div>Search string: ( 3752043 or RE27765 or 3766701 or 3784187 or 3834689 or 3866905 or 3902587 or 3948504 or 3977152 or 3995748 or 4125253 or 4162733 or 4181213 or 4183704 or 4190242 or 4229134 or 4269555 or 4285621 or 4460169 or 4474521 or 4700939 or 4717135 or 4721295 or 4751807 or 4824307 or 4824426 or 4874158 or 5074735 or 5299793 or 5454687 or 5460258 or 5503518 or 5558488 or 5772391 or 3414138 or 4613268 or 3279664 or 5101963 or 4311475 or 5290141 or 4314785 or 5144306 or 6254522 or 3298683 or 3739886 or 4577852 or 4714394 or 5076559 or 5730695 or 5201700 ).pn.</div> <div>US Patent Documents</div> <div>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</div> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3752043</td><td>1973-08-14</td><td>Rappaport et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>RE27765</td><td>1973-10-02</td><td>Salomon</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>3766701</td><td>1973-10-23</td><td>Besserlich et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>3784187</td><td>1974-01-08</td><td>Takayanagi et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>3834689</td><td>1974-09-10</td><td>Lee et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>3866905</td><td>1975-02-18</td><td>Trogan et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>3902587</td><td>1975-09-02</td><td>Cheoccucci</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>3948504</td><td>1976-04-06</td><td>Woessner et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>3977152</td><td>1976-08-31</td><td>Rochla et al.</td><td></td><td></td><td></td></tr></tbody></table> |                                     |            |            |                   |      |       |          | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |  | 1 | 3752043 | 1973-08-14 | Rappaport et al. |  |  |  |  | 2 | RE27765 | 1973-10-02 | Salomon |  |  |  |  | 3 | 3766701 | 1973-10-23 | Besserlich et al. |  |  |  |  | 4 | 3784187 | 1974-01-08 | Takayanagi et al. |  |  |  |  | 5 | 3834689 | 1974-09-10 | Lee et al. |  |  |  |  | 6 | 3866905 | 1975-02-18 | Trogan et al. |  |  |  |  | 7 | 3902587 | 1975-09-02 | Cheoccucci |  |  |  |  | 8 | 3948504 | 1976-04-06 | Woessner et al. |  |  |  |  | 9 | 3977152 | 1976-08-31 | Rochla et al. |  |  |  |
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|  | 1                                   | 3752043    | 1973-08-14 | Rappaport et al.  |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
|  | 2                                   | RE27765    | 1973-10-02 | Salomon           |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
|  | 3                                   | 3766701    | 1973-10-23 | Besserlich et al. |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
|  | 4                                   | 3784187    | 1974-01-08 | Takayanagi et al. |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
|  | 5                                   | 3834689    | 1974-09-10 | Lee et al.        |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
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|  | 7                                   | 3902587    | 1975-09-02 | Cheoccucci        |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |         |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |            |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |
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## Remarks

Note: Remarks are not for responding to an office action.

This is the fourth of five electronic submissions and one paper filing submission of foreign patent documents and non-patent literature and all are considered to be part of the same, single IDS. Citation of these references is respectfully requested. No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

## Signature

| Examiner Name | Date |
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